2.4GHz **Digital**

Wireless HD Headphones™

DOLBY® DIGITAL

TRUE 5.1 Surround Sound

Acoustic Research®

Owner's Manual

AWD510

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Important Information

CAUTION
RISK OF ELECTRIC SHOCK. DO NOT OPEN.

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The apparatus shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Warning: This equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Regulatory Information

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Unplug this apparatus during lightning storms or when unused for long periods of time.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the model number in case you need it. These numbers are located on the product.

Model No.: _____

Purchase Date: _____

Dealer/Address/Phone: _____

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Introduction

Congratulations on your purchase of the 2.4GHz Wireless HD Headphones with True 5.1 Surround Sound. The AWD510 uses the latest in wireless transmission, 2.4GHz digital technology, that lets you enjoy crystal clear, uncompressed Dolby Digital or uncompressed CD-quality audio up to 60 feet away from the transmitter. The headphones also offer a true 5.1 stereo listening experience, with a 3-speaker design in each ear cup. The headphones' compact design and comfortable ear cups let you enjoy theater-quality sound just about anywhere in your home.

This manual covers various connection options and detailed operating instructions for setup and use of the AR wireless headphones. If, after having reviewed the instructions, you have any questions, please call toll-free 1-800-732-6866 or visit www.araccessories.com.

Features

True 5.1 surround sound, with 3-speaker design in each cup

2.4GHz Digital technology lets you enjoy crystal clear audio wirelessly up to 60 feet away from the transmitter, with no line-of-sight limitations*

Convenient power, volume and tuning controls located on headphones

8 selectable transmission channels for optimized reception

**Range may vary according to environment.*

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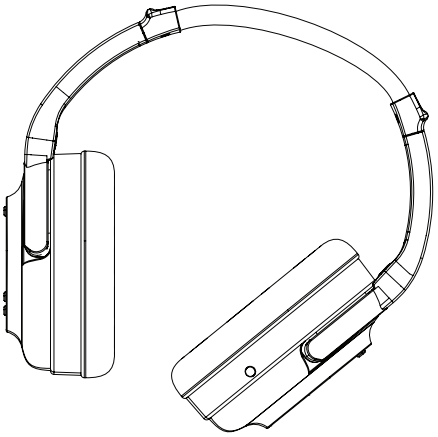
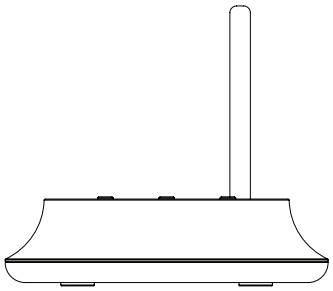
Getting Started

Supplied Accessories

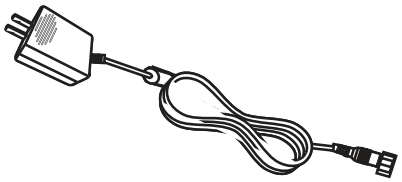
This headphone system includes accessories that enable you to use your wireless headphone set in a number of ways.



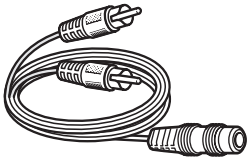
Wireless headphones



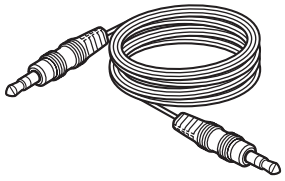
2.4GHz wireless transmitter



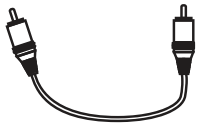
AC power adapter



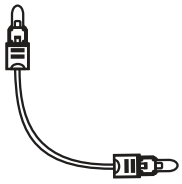
Stereo Y adapter cable (RCA/3.5 mm jack)



Stereo cable (3.5 mm jacks)



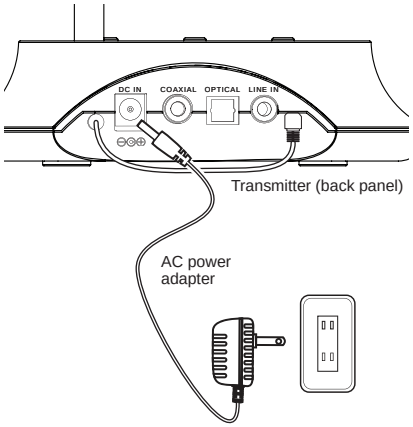
Digital coaxial cable



Optical cable

Charging the Headset

Before using your headphones for the first time, charge them for 3.5 hours using the supplied AC power adapter.



1. **Power the transmitter.**
   Connect the AC power adapter to the DC IN power supply jack on the transmitter's back panel.

   Plug the adapter into an electrical outlet.

   Important: *This power unit is intended to be correctly oriented in a vertical or floor mount position.*

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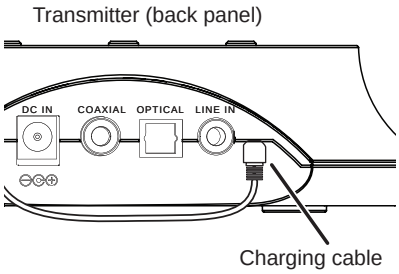
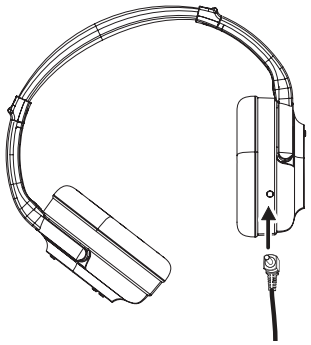


2. Charge the headset.
Unhook the charging cable on the transmitter's back panel.



Plug the end of the charging cable into the recharging jack on the right headphone.

While the headphones are charging, the LED on the left headphone remains red. This LED turns off when the headphones are fully charged.

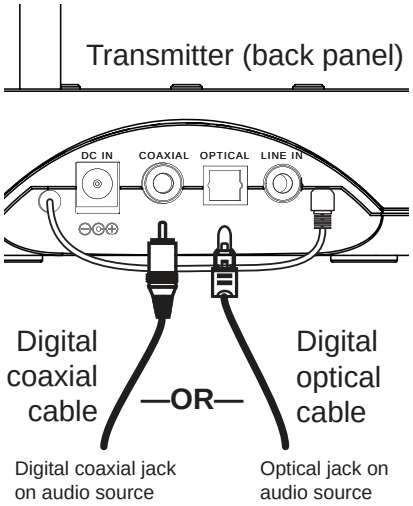
Note: *To get the most from your headphones' battery, make sure you let the headphones charge completely before you used them for the first time.*

Note: *Make sure the transmitter is off while you charge the headphones.*

Connection to the Audio Source

The 2.4GHz wireless transmitter supports Dolby Digital 5.1 encoding through the digital optical and digital coaxial inputs. It also offers an analog connection through the LINE IN jack.

Connecting to a digital optical or digital coaxial output



1. Plug the digital optical or digital coaxial cable into the corresponding output jack on your audio source.
2. Connect the other end of the digital optical or digital coaxial cable to the OPTICAL or COAXIAL jack on the transmitter's back panel.

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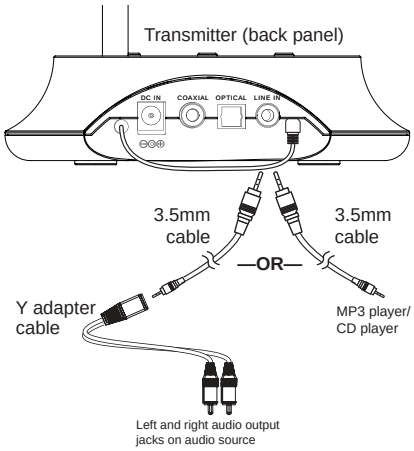
Connecting to mini jack or stereo RCA outputs



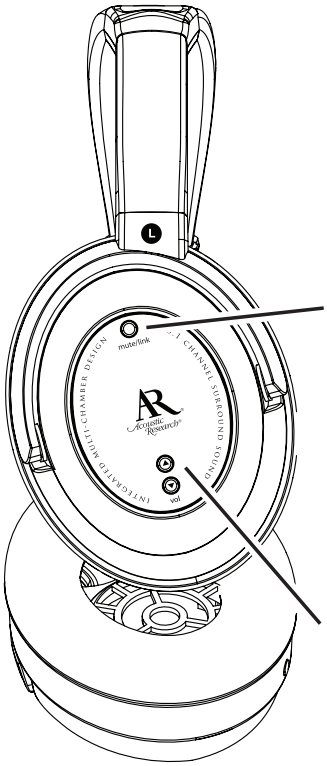
1. Connect one end of the 3.5mm stereo cable to the LINE IN jack on the transmitter's back panel.
2. Connect the other end of the 3.5mm stereo cable to the headphone jack on your MP3 or CD player.

   —OR—

   Connect the other end of the 3.5mm stereo cable to the Y adapter cable. Connect the red and white plugs of the Y adapter cable to the audio source's line out jacks—make sure you match the plug colors with the jack colors (red to red, white to white).

Headphone Buttons & Indicators

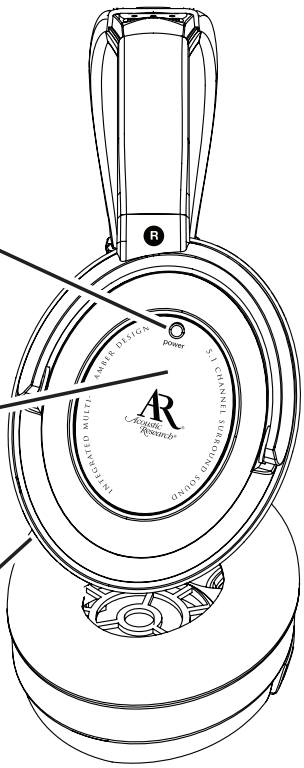
Left headphone (side view)



Mute/Link decreases headphone volume to its lowest level; hold for 5 seconds to link to the transmitter (if the headphones fail to link automatically)

Volume up/down buttons increase or decrease the headphone volume

Right headphone (side view)



Power button turns the headphones on and off

LED indicates charging (red) and communication with transmitter (blue)

Recharging jack

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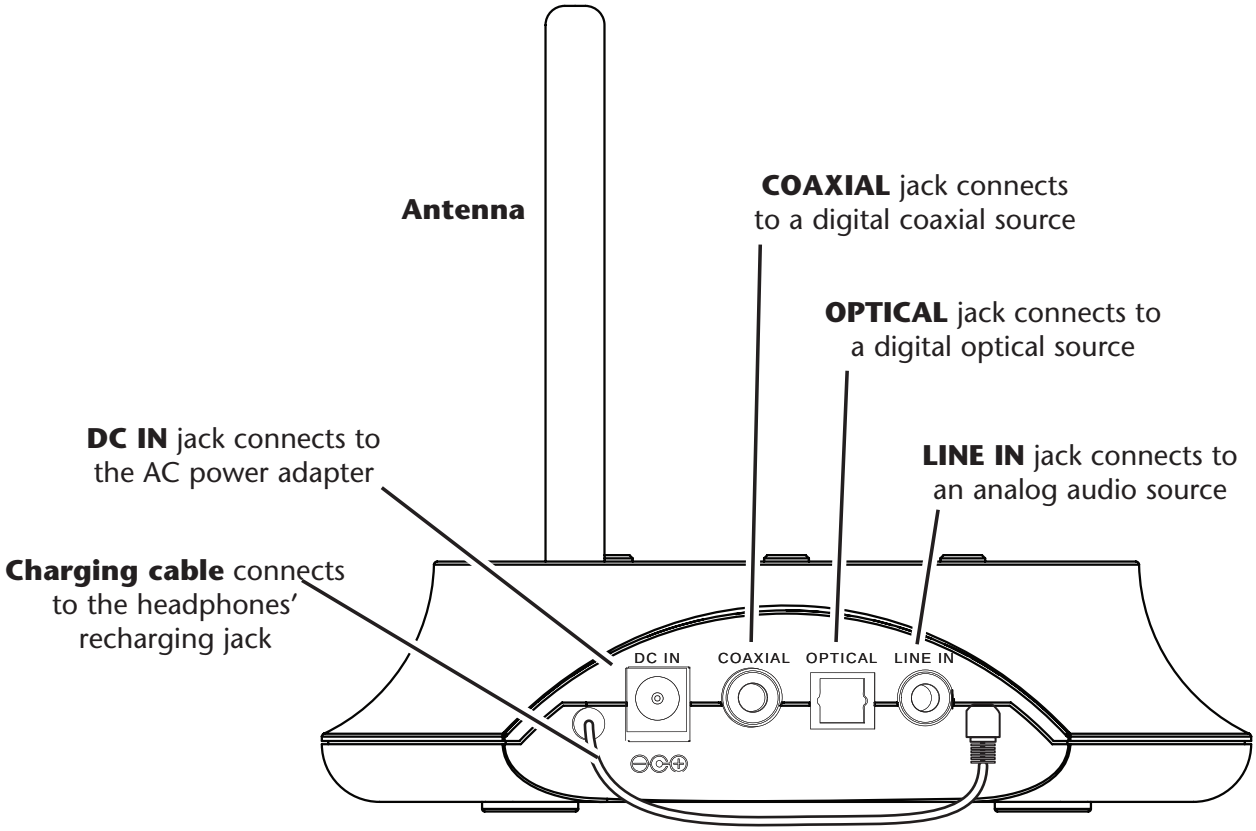
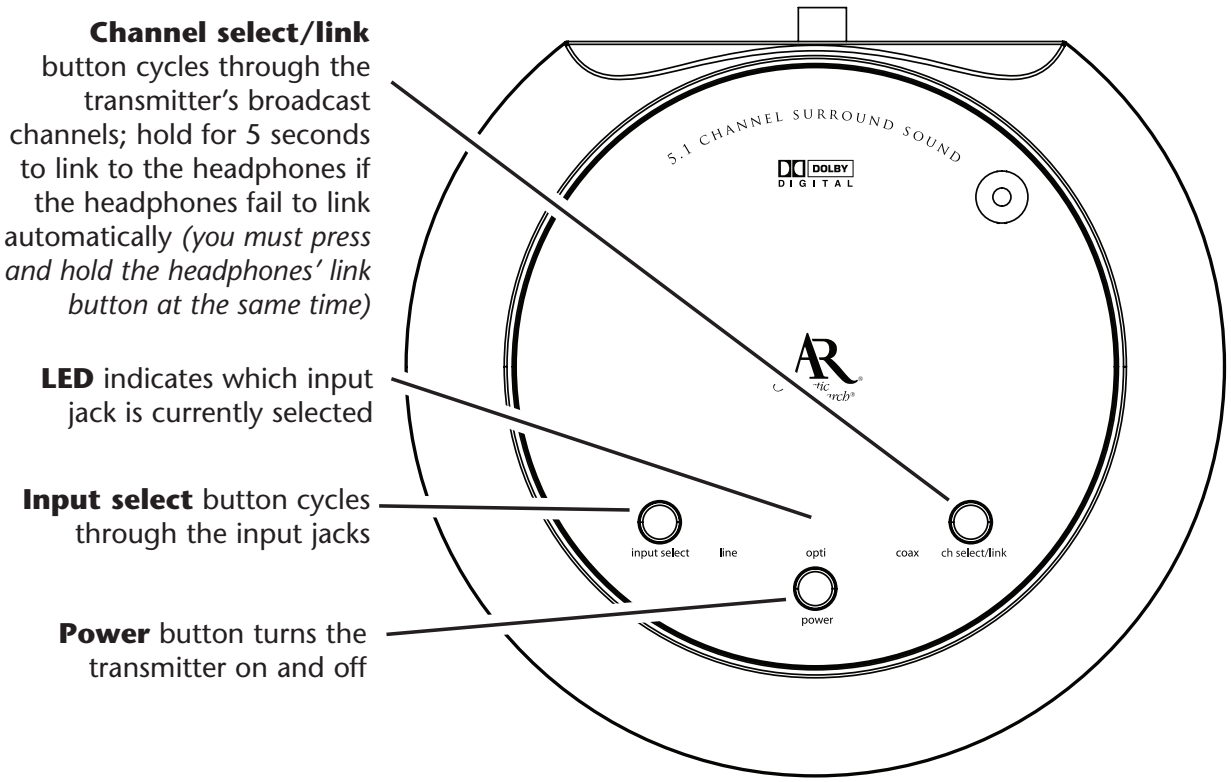
Transmitter Jacks & Controls

Transmitter (back panel)


Antenna
COAXIAL jack connects to a digital coaxial source
OPTICAL jack connects to a digital optical source
DC IN jack connects to the AC power adapter
LINE IN jack connects to an analog audio source
Charging cable connects to the headphones' recharging jack
DC IN
COAXIAL
OPTICAL
LINE IN

Transmitter (top panel)


Channel select/link button cycles through the transmitter's broadcast channels; hold for 5 seconds to link to the headphones if the headphones fail to link automatically *(you must press and hold the headphones' link button at the same time)*
LED indicates which input jack is currently selected
Input select button cycles through the input jacks
Power button turns the transmitter on and off
5.1 CHANNEL SURROUND SOUND
DOLBY DIGITAL
input select
line
opti
coax
ch select/link
power

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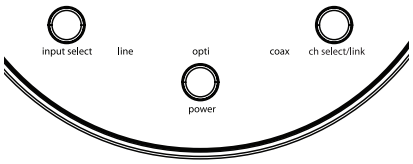
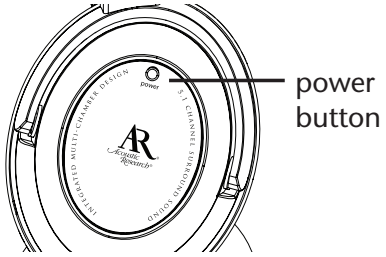
Using your Headphones





1. Press the power button on the transmitter's top panel to turn the transmitter on.

Note: *Make sure the right input is selected—if it isn't, press the input select button repeatedly until the LED above the correct input is lit.*

2. Press the power button on the right headphone to turn the headphones on.
3. Switch on the audio source (TV, DVD, CD player, etc.) to which the transmitter is connected. If your audio source is a DVD or CD player, start a disc.
4. The headphones and transmitter should automatically lock onto each other for wireless transmission.

   If they don't tune automatically, or if you experience interference in the transmission, press the ch select button on the top of the transmitter until you find the clearest channel. The headphones beep when they lock onto a new channel. If you don't hear a beep, the current channe might be in use by other 2.4GHz devices (such as a wireless router). Push the ch select button again to try another channel. There are 8 channel frequencies available.
5. Adjust the volume using the volume up and down buttons on the left earphone.

Turning the Headphones Off

To turn the headphones off: Press and hold the power button on the headphones for 1 second. Don't forget to switch off the transmitter too!

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If you're using the LINE IN input...

If possible, use a fixed-level (or line-level) audio output from your audio source. This kind of output provides a consistent level of audio that doesn't change when you adjust the source's volume control.

Fixed-level audio outputs from stereo receivers/amps are typically designated as tape or VCR audio output connections, sometimes marked on the component as 'TAPE OUTPUT,' 'TAPE OUT,' 'TAPE REC, or 'TAPE RECORD or REC OUT.'

Fixed-level outputs from TVs are usually marked as 'Constant,' 'Fixed,' or 'Select.' If they are not marked as such, they are probably variable outputs (see "About Variable-Level Audio Outputs" below). Outputs from DVD players are almost always fixed.

Important: *Jacks labeled CD, DVD/DVR, PHONO, or tape playback (PB) are INPUTS and will not work with the transmitter.*

About Variable-Level Audio Outputs

A variable-level output, such as a headphone jack or certain RCA-type outputs, provides an audio signal that changes with the volume level set on the audio source. As the volume of the audio source is adjusted up and down, so is the audio signal strength sent to the transmitter. This can affect the quality of sound generated by the headphones, and may require an adjustment of the volume level of the audio source to produce a signal strong enough for the transmitter.

Hints:

• *On most bookshelf-type or compact stereo systems, inserting a headphone plug into the headphone jack results in automatic cutoff of the regular, or hard-wired speakers.*

• *Most TVs, regardless of age or price, have variable outputs. If you are unsure which of your TV audio outputs is fixed, refer to the TV instruction manual. Some TVs have outputs that can switch between variable and fixed. When given a choice, fixed is always recommended.*

Listen safely!

Enjoy your headphones at a safe volume. Avoid or limit the amount of time you listen at higher volumes—permanent hearing loss may occur if the headphone is used at too high a volume. If you experience a ringing in your ears, or your own voice and other sounds seem muffled, stop using the headphones and consult a hearing professional.

Battery life

Due to the chemistry of the headphones' rechargeable battery, required charging time may increase while the actual capacity of the battery may decrease. If you have any questions regarding the replacement of the built-in battery, please call toll-free 1-800-732-6866 or visit www.araccessories.com.

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Troubleshooting

The following troubleshooting guide takes you through some of the more common problems associated with the installation and/or operation of a wireless system. If the problem persists, please call toll-free 1-800-732-6866 or visit www.araccessories.com.

Issue:	Cause and solution:
No sound	• Make sure the transmitter's AC power adapter is fully inserted into the wall outlet and the power cord from the AC adapter is firmly connected to the transmitter power input jack. • Check that the audio source component (DVD player, TV, etc.) is turned on and transmitting sound as it normally should. If you're using a PC or DVD player, make sure you've selected the correct audio output and that the sound is not muted. • Confirm that the headphones are turned on (the LED is blue) and tuned to the transmitter. If the LED is not blue, press the ch select key on the transmitter to try a different channel. If this doesn't work, press and hold the mute/link key on the headphone and the ch select/link key on the transmitter simultaneously for 3 seconds. • Make sure the headphones are charged—the LED on the right headphone should be blue. • Check that the headphone volume is turned up. • If you're using a variable output audio source (like a headphone jack or variable output on a TV set), make sure the source component's volume is set high enough for the transmitter to detect. • If you are using a Tape 2 Monitor output from your receiver/amp as the audio output, check that you have pressed the Tape Monitor/Tape 2 button on the front of the receiver. This will turn on the Tape 2 outputs, which may not have been active.
Interrupted sound	• Move closer to the transmitter with the headphones on. Sending the signal through certain materials, such as glass, tile, and metal, can decrease the effective transmitting distance of the system. • Try a different channel from the transmitter: press the ch select key on the transmitter's top panel.
LED fails to light up	• Make sure the headphones are charged and that the transmitter is properly connected to the audio source. Then, move the headphones close to the transmitter and press the headphone power button again.
Headphones shut off automatically	• Move closer to the transmitter. • The headphones' rechargeable battery needs to be recharged. Use the charging cable on the transmitter to recharge the headphones.
Headphones start beeping	• If you're trying to find a different channel on the transmitter, the headphones beep when they lock onto a new channel. • The headphones beep every few seconds when the batteries are running low. Use the charging cable on the transmitter to recharge the headphones.

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Specifications

Transmitter

Omni-directional 2.4GHz digital broadcast
Dolby Digital 5.1 Surround Sound decoding
Effective transmitting range: up to 60ft. (18m)*
Audio inputs: Digital optical, digital coaxial, and 3.5mm stereo jack
8 selectable transmission channels

HD Headphones

Patented three-speaker design in each earcup:
- 40mm Neodymium drivers for front left/right and subwoofers
- 15mm Neodymium drivers for center channels
- 15mm Neodymium drivers for surround left/right channels

Frequency response: 20Hz–20kHz
Distortion (THD): ≤1%
Battery type: Lithium polymer
Battery life: Up to 8 hours between charges

*Maximum range; results may vary according to environment.

12 Month Limited Warranty

Audiovox Electronics Corporation (the "Company") warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced (at the Company's option) without charge for parts and repair labor. To obtain repair or replacement within the terms of this Warranty, the product along with any accessories included in the original packaging is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the Company at the address shown below. Do not return this product to the Retailer.

This Warranty is not transferable and does not cover product purchased, serviced or used outside the United States or Canada. The warranty does not extend to the elimination of externally generated static or noise, to costs incurred for the installation, removal or reinstallation of the product. The warranty does not apply to any product or part thereof which, in the opinion of the company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident or exposure to moisture. This warranty does not apply to damage caused by an AC adapter not provided with the product, or by leaving non-rechargeable batteries in the product while plugged into an AC outlet.

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO DURATION OF THIS WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER, INCLUDING ANY IMPLIED WARRANTY, MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM THE DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product. Some states/provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state/province to state/province.

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